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Liquid Z520

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Acer Liquid Z520 Duo User's Manual
Model: Z520
This revision: February 2015

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Acer Liquid Z520 Duo Smartphone
Model number: _____
Serial number: _____
Date of purchase: _____
Place of purchase: _____

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TABLE OF CONTENTS

Setting up 5
Unpacking your smartphone 5
Getting to know your smartphone 5
Views 5
Charging the battery 6
Installing a SIM or microSD card 7

Using your smartphone 10
Turning on for the first time 10
Sign in to or create a Google account 10
Entering your PIN 10
Activating a new SIM card 10
Locking your smartphone 10
Waking your smartphone 11
Navigating through menus and options 12
Using the touchscreen 12
Onscreen keyboards 13
Google keyboard 13
Swype 14
Predictive text 15
The Home screen 15
Search 16
The extended Home screen 16
Personalizing the Home screen 16
The Application (Apps) menu 19
Notification and status area 20
Multitasking 21

Managing contacts 22
Managing your contacts 22
Adding a contact 22

Making calls 24
Before making a call 24
Making a call 25
Dialing a number from Call History 25
Viewing missed calls 26
Making a call to one of your contacts 26
Dialing an international number 26
Direct dial widget 27
The voice call screen 27
Answering or declining a call 28
Conference calls 29

Internet calling 30
Adding an internet calling account 30
Editing or removing an internet calling account 30
Using internet calling 30
Receiving internet calls 30
Calling a contact's internet calling address 31
Calling a phone number using internet calling 31

Messaging 32
Creating a new message 32
Replying to a message 33
Multimedia messages 34
Receiving multimedia messages 34

Going online 36
Browsing the internet 36
Using the browser 36
Setting up Email 37
Google services 37
Setting up your Google email 38
Voice search 38
Play Store 39
Google Hangouts 41
Maps, Navigation, Places and Latitude 41

Using the Camera 42
Camera/camcorder icons and indicators 42
Mode Selector 44
Settings menus 46
Taking a photo 47
Shooting a video 47
Supported formats 47
Viewing photos and videos 47
Geotagging 48

Advanced settings 49
Putting your smartphone in Airplane mode 49
Turning Airplane mode on or off 49
Restarting your smartphone 50
Adjusting settings 51
Activating or deactivating connections 51
Mobile network settings 53
Smartphone settings 54
Sound 54
Audio profiles 55
Display 55
Setting the date and time 56
Setting alarms 56
Changing language and text options 57
Connecting to a PC 57
Synchronization 57
FM radio 59
Applications (apps) 59
Closing an app 59
Uninstalling an app 60
Restoring to factory settings 60

Accessories and tips 61
Using the headset 61
Using a Bluetooth headset 61
Creating a new access point 61

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Inserting a microSD card 62

Managing your SIM cards **63**
SIM Management 63

Appendix **66**
FAQ and troubleshooting 66
Other sources of help 68

Warnings and precautions **69**
Medical devices 70
Vehicles 71
Potentially explosive environments 71
Emergency calls 72

Taking care of your smartphone 72
Specifications 74
Performance 74
Display 74
Multimedia 74
USB connector 74
Connectivity 75
Camera 75
Expansion 75
Battery 75
Dimensions 75

End User License Agreement **76**

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SETTING UP

Unpacking your smartphone

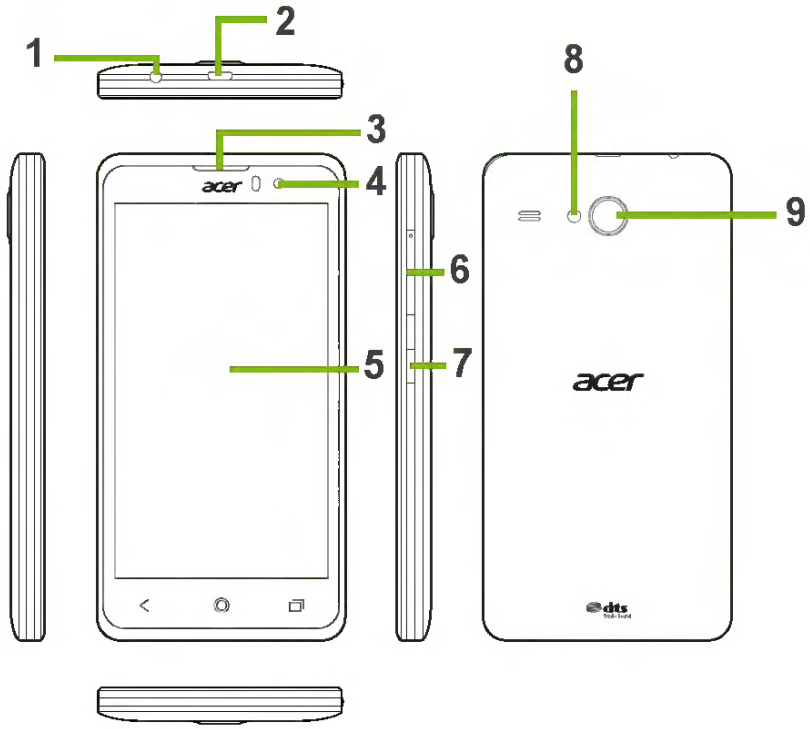
Your new smartphone comes packed in a protective box. Carefully unpack the box and remove the contents. If any of the following items is missing or damaged, contact your dealer immediately:

- Your new Acer smartphone
- USB cable
- AC adapter
- Headset

Note
In-box content varies depending on country and region.

Getting to know your smartphone

Views



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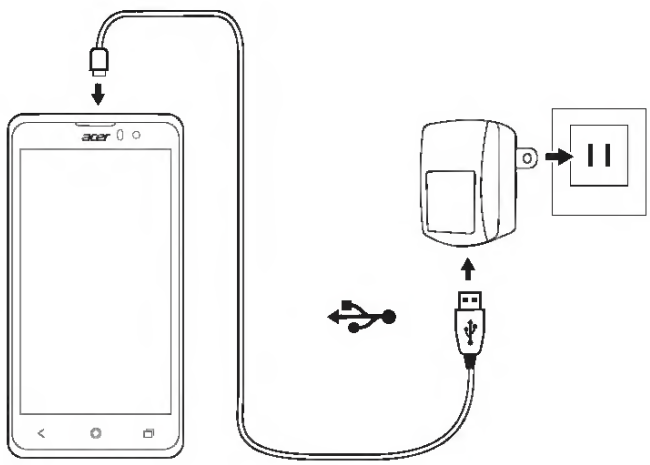
No.	Item	Description
1	3.5 mm headphone jack	Connects to stereo headphones.
2	Micro USB connector	Connects to a USB cable/charger.
3	Smartphone speaker	Emits audio from your smartphone; suitable for holding to your ear.
4	Front-facing camera	Use for self-portrait images and online video chat.
5	Touchscreen	5-inch capacitive touchscreen to display data, smartphone content and enter information.
6	Volume up/down button	Increases or decreases the smartphone volume.
7	Power button	Press to turn the screen on/off or enter sleep mode; press and hold to turn the smartphone on or off.
8	Flash	LED flash for camera.
9	Camera	A camera for taking high-resolution images.

Charging the battery

For initial use, you need to charge your smartphone for eight hours. After that you can recharge the battery as needed.

Connect the AC adapter cord to the micro USB connector on your smartphone.



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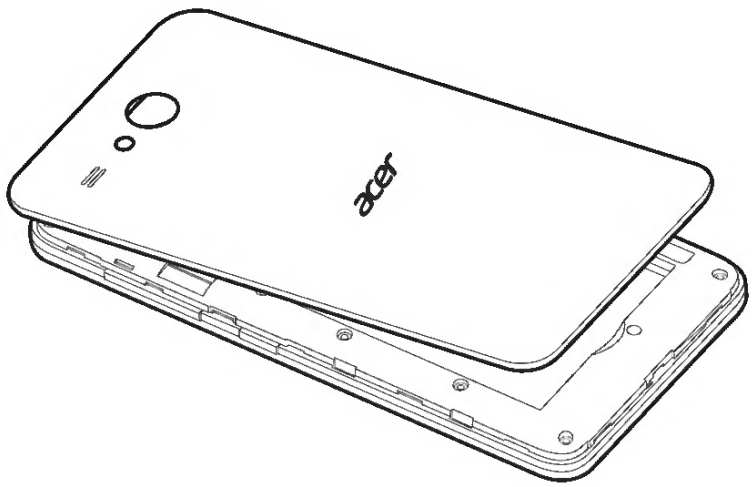
Installing a SIM or microSD card

To take full advantage of your smartphone's telephony capabilities, you must install a SIM card.

Your new smartphone has multiple SIM card holders; install any combination of SIM cards.

Additionally, you may wish to increase your smartphone's storage by inserting a microSD card into the labeled slot.

1. Turn off the smartphone by pressing and holding the power button.
2. Insert your fingernail into the notch located at the bottom of the phone and remove the cover as illustrated.



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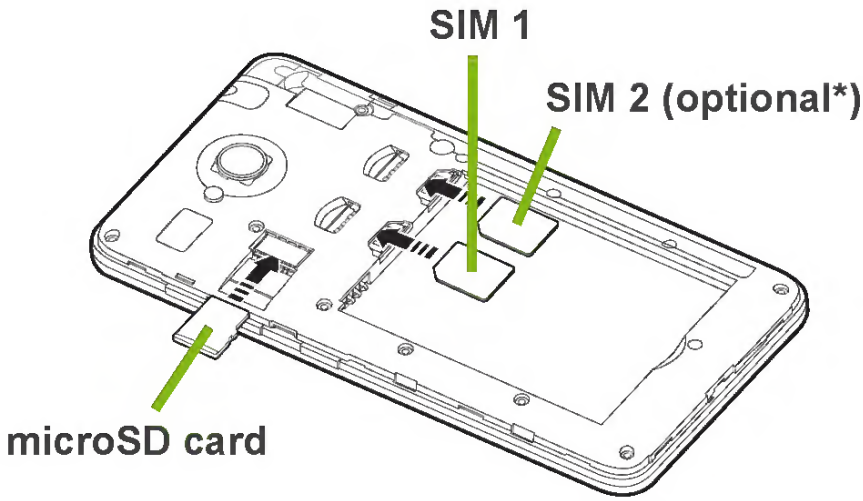
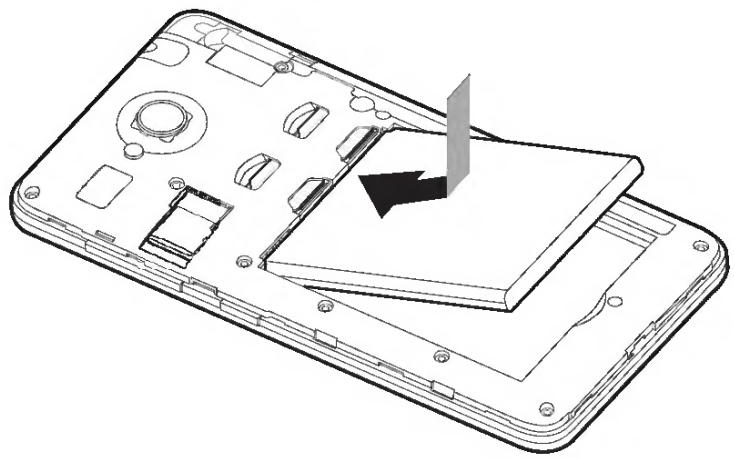
3. Insert the SIM or microSD card as shown.



***Note:** Your smartphone may be equipped with one or two SIM slots depending on model.

4. Align the gold-colored connectors on the battery with the connectors at the top of the battery compartment and insert the battery.



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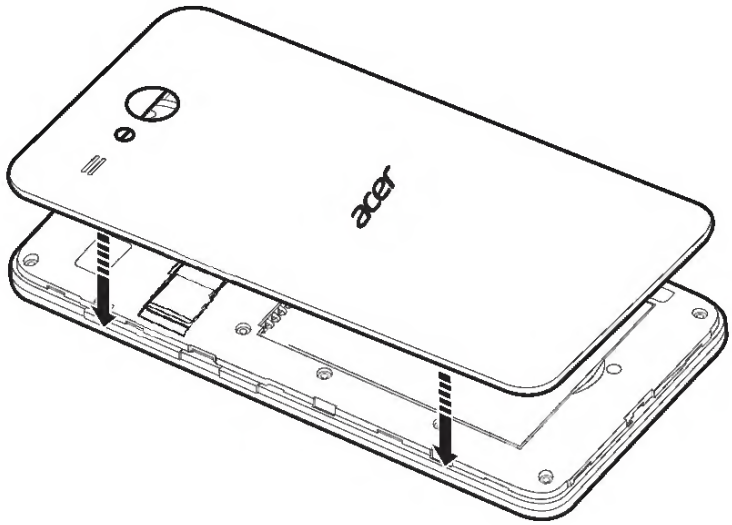
5. Replace the cover by aligning the tabs on the cover into the slots on the phone. Gently press the cover until it snaps in place.



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USING YOUR SMARTPHONE

Turning on for the first time

To turn on your smartphone for the first time, press and hold the power button until the screen turns on. You will then be asked to configure some settings before you can use your smartphone.

Follow the onscreen instructions to complete setup.

Sign in to or create a Google account

If you have Internet access, your smartphone allows you to synchronize information with a Google account.

You may create or sign in to an existing Google account, which will be used to synchronize your contact list, email, calendar and other information. Open the *Application menu* and then tap **Settings > Add account.** Tap the type of account you want to add (e.g. Google). You will need internet access to complete the synchronization process. You can create and easily access multiple Google accounts.

Entering your PIN

When you install a SIM card for the first time, you may need to enter a PIN using the onscreen number pad.

Important

Depending on your settings, you may be required to enter your PIN each time you switch on the phone function.

Activating a new SIM card

If you are using your SIM card for the first time, it may require activation. Contact your network operator for details on how to do this.

Locking your smartphone

If you will not use your smartphone for a while, briefly press the power button to lock access. This saves battery power and ensures your

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smartphone does not unintentionally use any services. Your smartphone will lock automatically if it is not used for one minute (depending on your settings).

Waking your smartphone

If the screen is off and the smartphone does not react to any taps on the screen or front panel button, then it has been locked and is in sleep mode.

Press the power button to wake your smartphone. Unlock your smartphone by sliding your finger from one side of the screen to the other (it works both ways).

For additional security, you may set an unlock pattern, a set of dots that must be touched in the correct order to access the smartphone. Open the *Application menu* and then tap **Settings** > **Security** > **Screen lock**. If you forget your unlock pattern, please refer to **Unlock pattern on page 68**.

You may also directly enter the lock screen apps. Tap and hold the lock screen icon, move your finger in any direction, and release. The smartphone unlocks and opens that app.

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Navigating through menus and options

To navigate through menus and options, there are three buttons beneath the screen.

Back

Tap this button to go to the previous page, or to go up one level in a menu.

Home

Tap this button to go directly to the *Home screen*. Tap and hold this button to open *Search*.

Menu

Tap this button to see recently opened apps. Tap an app to open it. Acer Float apps display tt the bottom of the *Menu* screen. Tap a Float app to open the app in its own window while keeping what you were doing visible. You can customize which Float apps display below. Tap ••• to the right of the Float apps. Choose from float *Browser*, *Buttons*, *Calculator*, *Camera*, *Maps*, *Notes*, *Stopwatch*, and *Text*.

Tap and hold the *Menu* button to open a menu of actions that are valid for the current app or screen. Tap anywhere on the screen to return to the *Home screen*. **See Multitasking on page 21**.

Using the touchscreen

Your smartphone uses a touchscreen for selecting items and entering information. Use your finger to tap the screen.

Tap: Touch the screen once to open items and select options.

Drag: Hold your finger on the screen and drag across the screen to select text and images.

Tap and hold: Tap and hold an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

Scroll: To scroll up or down the screen, simply drag your finger up or down the screen in the direction that you want to scroll.

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Onscreen keyboards

Note

The keyboard layout varies slightly, depending on the application and information that is required.

Google keyboard

This is a standard onscreen QWERTY keyboard that allows you to enter text. Tap and hold a key with numbers at the top to select alternative characters, such as letters with accents.

Tap the **?123** button to see numbers and special characters, and then tap the **=\<** key to see even more.

You can choose another input language by tapping and holding the comma. Alternatively, you can open the *Application menu* and then tap **Settings** > **Language & input**. Then tap the **Settings** button next to *Google keyboard* > **Input languages**. The keyboard layout changes according to the selected language.

After setting up more than one language, the world button appears next to the space bar. Tap this button to quickly toggle between multiple input languages.

Text assistance

The Google keyboard has various features that assist you to enter correct text. In the *Application menu*, tap **Settings** > **Language & input.** Then tap the **Settings** button next to *Google keyboard*. From here you can enable or disable several keyboard-related settings.

Changing the text input method

To change the input method, in the *Application menu* tap **Settings** > **Language & input** > **Default** and then select your preferred input method.

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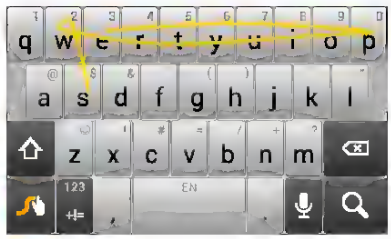
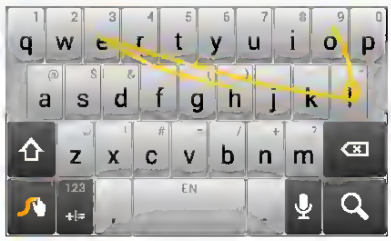
Swype

Swype is a fast wat to enter text. It allows you to type with one continuous motion across the screen keyboard; you create a word by drawing through the letters.

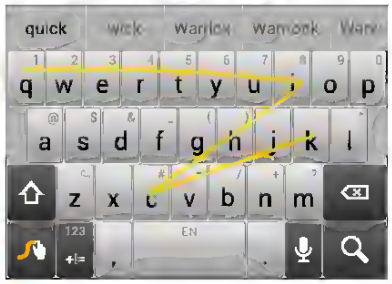


Put your finger on the first letter of the word and draw a path from letter to letter, lifting up only after the last letter. Swype will insert spaces where necessary.



Swype will usually add a double letter in a word when needed, but you can help Swype recognize you want a double letter by scribbling slightly or making a loop on the letter. For example, to get the "ll" in "hello", scribble (or make a loop) on the "l" key.

When there are multiple suggestions for the word you want to enter, Swype displays a Word Choice List. To accept the default word in the Word Choice List, just keep Swyping. Otherwise, scroll through the list by dragging your finger, and tap the word you want.



Press and hold the Swype key to access settings, features, updates, preferences, and help.

Tap the **+!=** button to see numbers and special characters; tap the page (shift) key to see even more.

Additional keys vary dependaing on the type of text you enter, e.g. a key to add a smiley is available when typing a text message. Like other keys, tap and hold for additional options.

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Text assistance

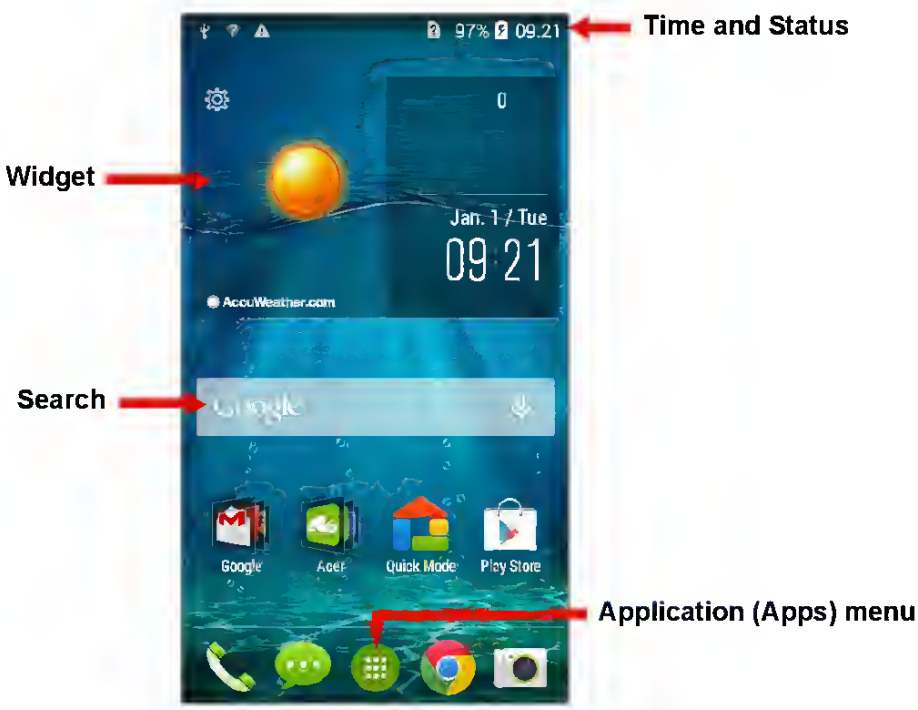
The Swype keyboard has various features that assist you to enter correct text. In the *Application menu*, tap **Settings > Language & input** and then tap the **Settings** button to the right of **Swype**. You can also tap and hold the Swype key.

Predictive text

Google keyboard provides predictive text input for the browser. As you tap the letters of a word, a selection of words are displayed above the keyboard that continue the sequence of letters tapped, or are a close match allowing for errors. The word list changes after every key press. If the word you need is displayed, you can tap on it to insert it into your text.

The *Home screen*

The *Home screen* gives you quick access to information and simple controls with widgets or shortcuts. These display information such as the time and weather, or provide additional controls and direct access to apps and other frequently used features of your smartphone.



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At the bottom of the screen is the *application dock* which displays default apps. Tap an icon to open the app. Tap the *Application menu* icon in the middle of the *application dock* to view your apps. To change apps, **see Changing application dock icons on page 18**.

Search

To search for apps, files or for information on the Internet, tap the **Google** icon.

Enter the text you want to find and tap or tap one of the suggestions, apps or files shown in the list.

In order to search or browse the Internet, you must be connected to a cellular data (if available) or wireless network. **See Going online on page 36**.

Voice search

If voice search is available, tap the microphone and speak your search request. **See Voice search on page 38**.

The extended *Home screen*

The *Home screen* extends to either side of the screen, giving you more room to add icons, widgets or features. To view the extended screen, slide your finger to the left or right.

Personalizing the *Home screen*

You may personalize your *Home screen* by adding or removing app shortcuts or widgets, and by changing the wallpaper.

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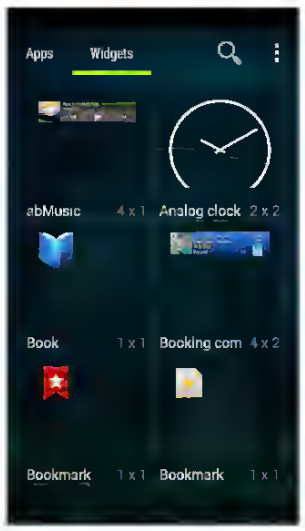
Adding and removing shortcuts and widgets



To add shortcuts or widgets, tap the *Application menu*. Then tap **Apps** to see a list of shortcuts to apps you can drag to a *Home screen*.

Tap **Widgets** to see small apps and links (such as custom shortcuts, contacts or bookmarks) that you can add to a *Home screen*. Widgets are small apps that display constantly-updated information or quick shortcuts to apps or special functions.

To move an app or widget to the *Home screen*, tap and hold an item until it is selected. The *Home screen* will open. Drag the item to any free area on the screen. To view information about the app or widget, drag it to the icon at the top of the screen.

To move the item to a different *Home screen*, drag it to the side of the screen, the *Home screen* will switch to the screen in that direction. Release the item when it is positioned correctly.

To remove a shortcut or widget from the *Home screen*, tap and drag it to **Remove** at the top of the screen.

Resizing widgets

Some widgets can be resized. To resize a widget that is already on the *Home screen*, tap and hold the widget. Once the Remove icon appears, release the widget. If the widget is resizable, you will be able to drag the sides of the widget to resize it.

Adding or removing folders

You can also add folders to your *Home screen*. To create a new folder drag and drop an app icon onto another app icon in the *Home screen*.

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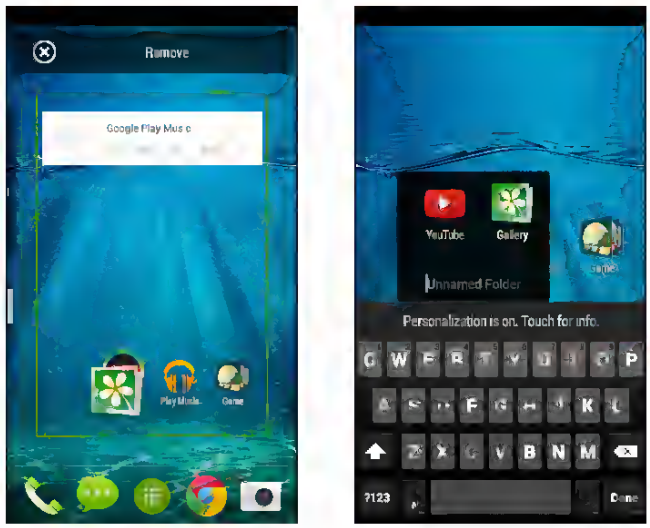
This will create an Unnamed Folder. Tap the folder icon and then tap the name of the folder to rename it.



To delete an app shortcut from a folder, tap on the folder icon to display the apps inside and then tap and hold the app icon that you want to remove. Drag and drop the icon on **Remove** that will appear at the top of the screen.

To delete a folder, tap and hold on the folder and then drag and drop the folder on **Remove** that will appear at the top of the screen.

Changing application dock *icons*

You can set icons for installed apps in the *application dock*. Open the *Application menu* and find the app you want to add. Tap and hold the icon, then drag it to any open position in the dock. Dragging the new app to an existing dock icon will create a folder for both icons.

To remove an icon from the dock, tap and hold the icon to select it. Either drag the icon to a different location outside the dock or to **Remove** at the top of the screen.

Changing the wallpaper

In the *Application menu*, tap **Settings** > **Display** > **Wallpaper**. Choose from images stored in the *Gallery*, *Live Wallpapers* (featuring animated or interactive backgrounds), *Photos*, *Video Wallpaper* (enabling you to use videos as your background), or *Wallpapers*.

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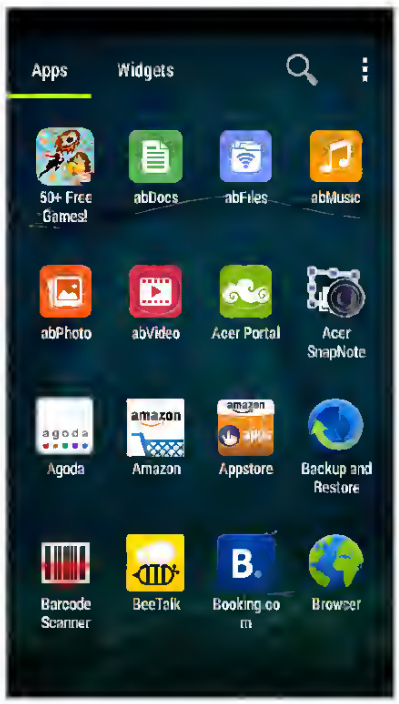
The *Application (Apps) menu*

To access the *Application menu*, on the *Home screen* tap in the center of the dock.



Apps are displayed in alphabetical order. Swipe the page to the left or right to see more apps. When you are on the last page of apps, swipe to the left to see widgets available on your smartphone, or tap **Widgets** at the top of the page.

To quickly jump to apps or widgets, tap **Apps** or **Widgets** at the top of the *Application menu*.

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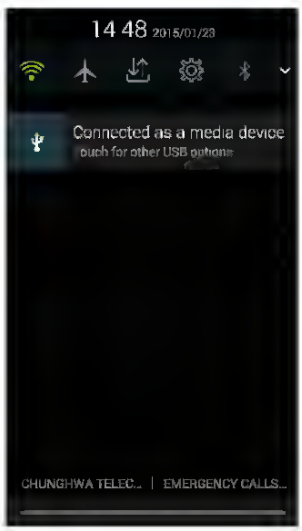
Notification and status area

Notification and status icons are shown at the top of the screen. The top-right area displays a variety of status information, such as Wi-Fi connectivity, signal strength, battery status, and time. The top-left area displays event icons, such as a new message.

Drag the **Notification** area down the screen to view more information about new events. Tap the down arrow on the far right to access *Quick Settings*.



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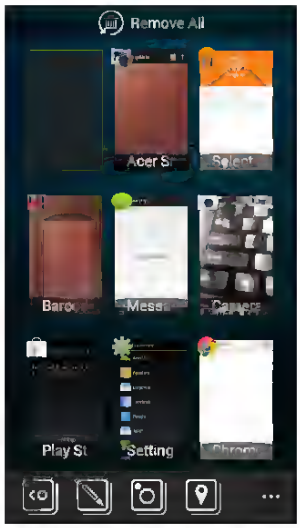
Multitasking

You can have multiple apps open at the same time. To open a new app, tap the home button to return to the *Home screen*, then start the new app. Tap the **Menu** button to quickly navigate back and forth between previously-opened apps.



Note

*To extend battery life, it is better to close an app when you've finished using it. Do this by either pressing the **Back** key until it closes or the **Menu** button and selecting **Exit** (if available).*

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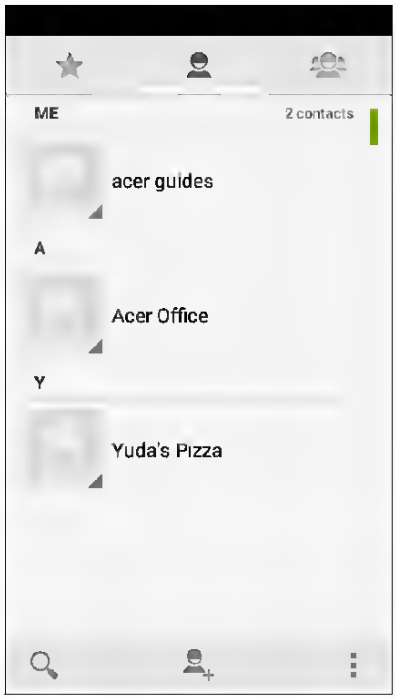
MANAGING CONTACTS

Managing your contacts

Your smartphone features an address book that allows you to save contacts to either the internal memory or onto your SIM card.

Tap the **People** app from the *Application menu* or tap **All contacts** from the *Dialer* to view your contacts.



If you don't have any contacts stored on your smartphone, you can import your Google account contacts, add a new contact or import contacts from your SIM or SD card. Open the **People** app from the *Application menu* and then tap to add a contact, to search for a contact, or tap the **Menu** button to open the menu.

Adding a contact

Tap to add a new contact. You may also scan a person's profile barcode to add the person to your contact list or group.

To create a contact, first choose where you want to store the contact's information. You will then be asked to enter the contact's information,

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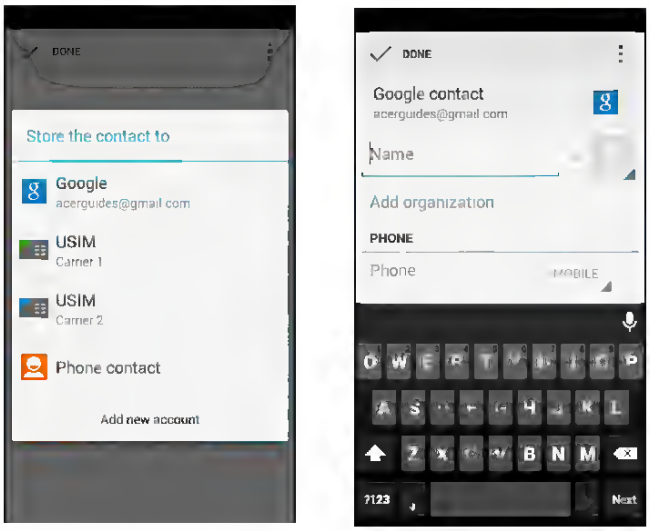
such as name, address, and phone number.



You may scroll down the page and tap **Add another field** to add things such as:

- IM addresses.
- Add any personal notes about the contact.
- Phonetic name
- Link a website

To assign an image to your contact, tap the silhouette and select whether to take a photo or select an image from your smartphone's picture gallery.

When done, click **Done** at the top of the screen.

Tapping on the contacts name will bring up their profile. Tap ⋮ while viewing a contact's profile to edit, share, delete, or print the contact. You may also set a ringtone for the contact, block incoming calls from this contact, or place the contact on your *Home* screen.

You may also create a contact from an already dialed or received number, **see Saving a dialed number to contacts on page 29**.

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MAKING CALLS

This chapter shows you how to make phone calls, and the various options available to you during your call.

Before making a call

Check that the smartphone is connected to the network before you make a call. You can confirm the smartphone status from the Notification area.

Note
Status and notification icon colors may vary.

Icon	Description
	Not connected to the network: You are unable to make a call.
	Connected to the network: You may make a call.
	Airplane mode: Wireless connectivity disconnected (Wi-Fi, Bluetooth, and cellular services). Please disable airplane mode before trying to make a call.

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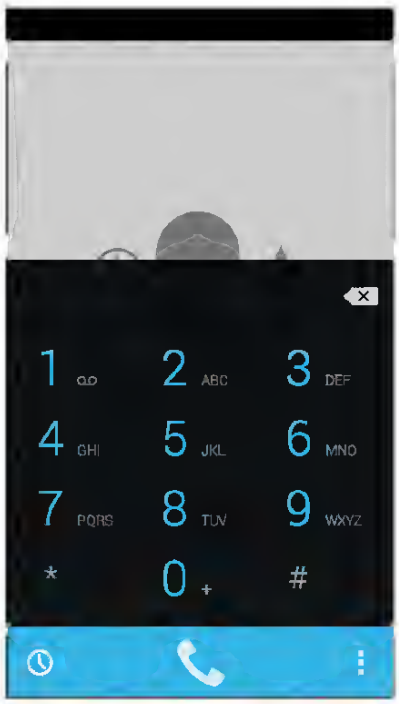
Making a call

Note

If you have multiple SIMs inserted in the smartphone, you will be asked which SIM to use before the call is connected. To select a SIM, just tap the name of the carrier.

1. From the *Home screen* tap **Phone** > to open the onscreen number pad.



2. Enter the number you wish to dial.
3. Tap to make the call.
4. To end the call, tap .

If the contact you need is displayed, simply tap the contact name to make a call.

Dialing a number from Call History

Your call history can be viewed by tapping the *Call History* button. It displays recent received, dialed, and missed calls.

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Tap the phone icon to redial. To view call details and other options, tap the number or contact's name.

Viewing missed calls

Missed call notifications are displayed in the following three areas:

1. The Notification area with the missed call icon. Open the **Notification** area and tap the missed call notification to display the missed call details.
2. By the Phone icon (the number in the box is the number of missed calls). Tap **Phone** from either the *Home screen* or the *Application menu* to directly display the missed call details.
3. On your smartphone's lock screen. Tap the notification and slide to the left or right to display the missed call details.

Making a call to one of your contacts

Calling a contact from the Contacts tab

1. Tap the **All contacts** to view your contacts.
2. Tap on a contact to call them.

Calling a contact from the Contacts app

1. Tap the **People** icon the *Application menu* to view your contacts.
2. Tap on a contact to open their profile.
3. Tap on the contact's phone number to call them.

Dialing an international number

When dialing international numbers, there is no need to enter the international direct dialing prefix ('00' etc.) before the country code.

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Simply tap and hold 0+ on the onscreen number pad until + appears onscreen.

Important

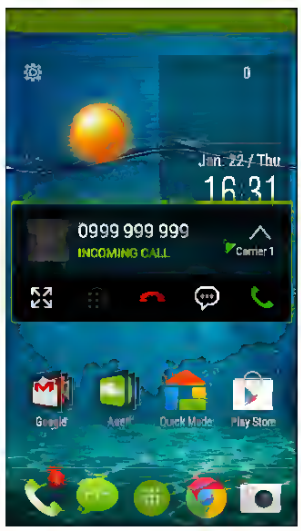
International call rates can vary greatly depending on the country you are calling and your network provider. We suggest you check all call rates with your network provider, to avoid excessive phone bills. If you are using your smartphone abroad, roaming charges will apply. Consult your network provider for roaming rates specific to the country you are visiting before you leave.

Direct dial widget

You may add a direct dial widget for a contact on your *Home screen*. Open the *Application menu*, then tap the **Widgets** tab. Tap and hold **Direct dial** and you will be able to place the widget on your *Home screen*. Once placed, you will be able to select a contact to associate with that particular widget on your *Home screen*.

The voice call screen

You can minimize the call window to appear as a movable dialog instead of a whole screen by tapping the icon when connected to a call. You can even set this "floating" dialog box as the default voice call screen. To do so, from the *Home screen* tap **Phone** > ⋮ > **Settings**. Ensure the Float Caller check box is selected.



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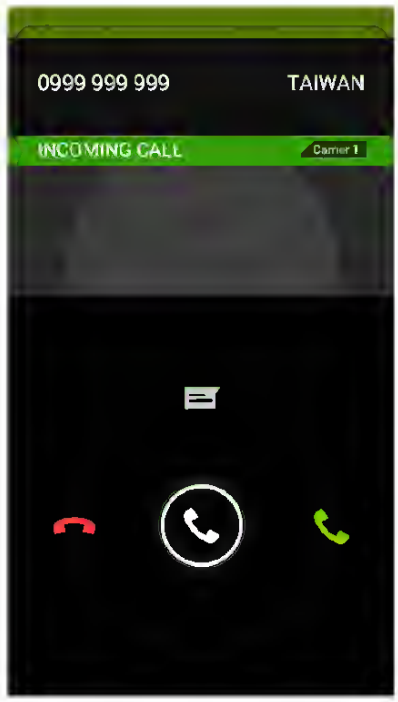
Answering or declining a call

When you have an incoming call, the number will be shown on the screen. To accept or decline the call, tap the appropriate icon and slide your finger across the screen. To decline the call with a text message, tap the 💬 icon and select a message.



Ending a call

To end a call, tap from the voice call screen.

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Voice call options (call screen minimized)

Icon	Description
	Close Float Caller and maximize the call screen.
	Access the keypad while a call is in progress.
	End the call.
	Speakerphone.
	Mute a call.

Saving a dialed number to contacts

You can save a number you have dialed to your contacts for future use.

1. From the *Call History* , tap the number and then tap **Add to contacts** .
2. Tap **Create new contact** and enter the information. **See Adding a contact on page 22**.

Conference calls

If you have one call on hold and another on line, you can combine both calls to create a conference call.

After the first call is established, tap to add a second call. Search for a second contact or dial a number to start the conference call.

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INTERNET CALLING

You can place and receive internet calls over a wireless network.

Adding an internet calling account

From the *Home screen*, tap **Phone**. If open, tap the **Back** button to close the onscreen number pad. Tap the ⋮ then **Internet Call** . Enable internet calling by tapping **Use internet calling**. Tap **Accounts > ADD ACCOUNT** to add an internet calling account.

Enter the **Username**, **Password**, and **Server** information and if you want this new account to be your primary internet calling account, tap **Set as primary account**. You can also configure optional settings such as *Display name*, *Outbound proxy address*, *Port number*, *Transport type*, and *Send keep-alive*.

Editing or removing an internet calling account

Open an existing internet calling account and make the edits you want on the SIP account details. Tap **Save** to save your changes, tap **Discard** to discard the changes, or tap the **Menu** button and then select **Remove account** to delete the existing account.

Using internet calling

You can configure your smartphone to use internet calling (when you're connected to Wi-Fi) for all calls, only for internet calls, or to ask each time you place a call.

Receiving internet calls

Once your have created an internet calling account, you can toggle off and on the internet calling feature on your smartphone. From the *Home screen*, tap **Phone**. If open, tap the **Back** button to close the onscreen number pad. Tap ⋮ then **Internet Call**. Enable internet calling by tapping **Use Internet calling**.

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Calling a contact's internet calling address

You must add an internet calling address to a contact to be able to place an internet call to them.

To make an internet call, from the *Application menu* tap **People**. Tap on the contact to open their profile, and then tap on their internet calling address to place the call.

Note

Many modern internet calling apps automatically "connect" to any of your Android contacts who also have that service. Any connected services will be listed under "connections" in the contact's profile.

Calling a phone number using internet calling

If you have configured your smartphone to place all calls using internet calling or to ask for each call, you may also call a phone number using internet call, whenever you are connected to a wireless network.

Dial the number and tap , or select the contact you wish to place a call to, then tap the internet call account you want to use to make the call.

Important

Calling a phone number using internet calling requires that your service provider supports it, and may incur additional charges. Please contact your service provider if you have any questions.

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MESSAGING

This chapter shows you how to set up and use the **Messaging** functions of your smartphone.

All SMS and MMS messages are accessed via **Messaging**. Messaging automatically arranges received and sent messages into threads.

To access Messaging, open the *Application menu* and tap **Messaging** on the *Home screen*.

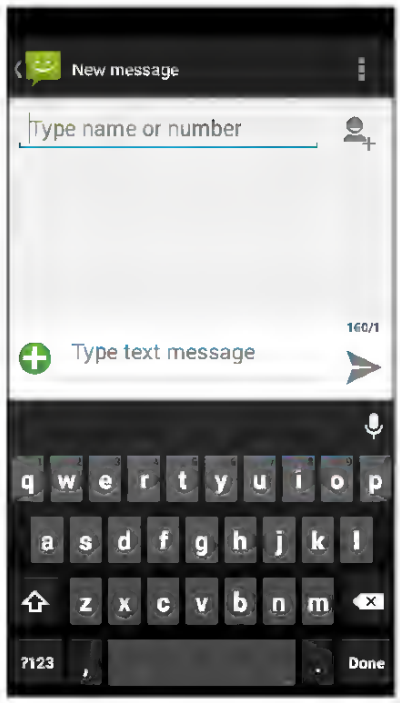
Note

If you have multiple SIMs inserted in the smartphone, you will be asked which SIM to use before the message is sent. To select a SIM, just tap the name of the carrier.

Creating a new message

You can use your smartphone to compose text (SMS) and multimedia (MMS) messages.

Tap to compose a new message.



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Tap to add contacts from your contacts list (*People*), or tap the **Type name or number** field to enter the recipient's phone number or name directly. Suggested contacts will be displayed in a drop-down list below the text field. To select a suggested contact, tap the contact's name.

Enter your message in the text box labeled **Type text message**.

Note

Text messages may be up to 160 characters long. If your message is longer than 160 characters, it will be sent as multiple linked messages. Most phones will automatically join the linked messages to present the recipient with a single long message, however, some older phones do not have this ability.

Tap the Menu button to see what options are available when creating a new message. The options change depending on the status of the message.

Option	Description
Insert quick text	Insert pre-defined text content.
Insert contact	Add a contact to the recipients list.
Add subject	Add a subject to the message.
Discard	Discard the message.

Replying to a message

When a new text message arrives a message icon appears in the Notification area and the message icon at the bottom of the smartphone displays the number of unread text messages.

Tap **Messaging** from the *Application menu* to view the message list or open the **Notification** area to see a summary of the message. Tap the summary to open the message list.

To reply to an SMS or MMS message, open the message from the message list. Enter your text in the text box labeled **Type text message**. Tap the Menu button to see available options.

Option	Description
Select message	Select multiple messages.

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Option	Description
Insert quick text	Insert pre-defined text content.
Insert contact	Add a contact to the recipients list.
Add subject	Add a subject to the message.
Add to People	Add the other contact to your contacts list.
Chat settings	Modify various messaging settings.

Multimedia messages

Multimedia messages are similar to text messages but also allow you to attach files such as pictures, audio or video clips. Each message can be up to 300 kB in size.

Note

You need to set up an MMS profile before you can send MMS messages. Normally, your smartphone will set up the profile for you based on information retrieved from your provider.

Ask your network provider for the necessary information if you need to manually set up the MMS profile.

Receiving multimedia messages

When a new multimedia message arrives, a message icon appears at the top of the screen and a notification message is displayed.

1. The notification message displays a summary of the message. Tap **View** to view a summary of the message.
2. Tap **Download** to download the message content. Downloads can take a long time, depending on your connection quality. If you reply or open another app, the download will be stopped.

Important

You may be charged to download message content, especially if you are roaming. Please contact your provider if you have any questions.

3. Tap the message to view the content.

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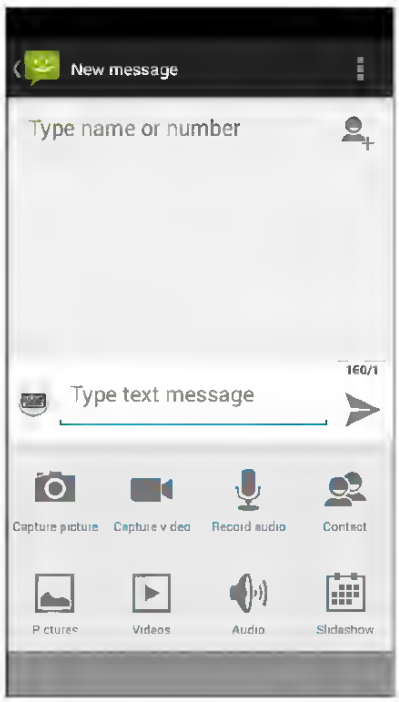
4. To reply to the message, enter your text in the text box labeled **Type text message** and tap the **Send** icon. Simple text replies will be sent as SMS messages. If you wish to attach a file, tap . You will be presented with a menu of options.



5. When you have finished composing the message, tap **Send**.

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GOING ONLINE

Browsing the internet

In order to browse the internet with your smartphone, you must be connected to a data or wireless network.

Using the browser

To start browsing, open the *Application menu* and tap **Chrome**.

To open a new website, tap the address box at the top of the page. Enter the address using the keyboard and tap **Go**. You can zoom in or out of pages by pinching or reverse pinching.

To open multiple pages, tap to display all of your open tabs (tap again to close). Tap a tab from the list to open it. To open a new tab, tap **New tab**. The number in the icon represents the number of open tabs. To close a tab, simply swipe it off the screen to the left or right.

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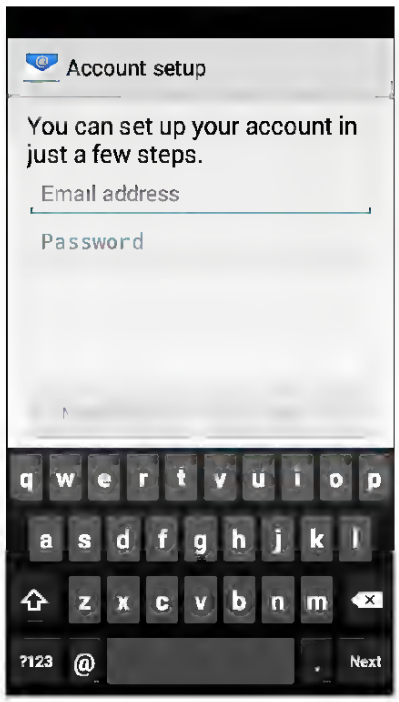
Setting up Email

Your smartphone enables you to access your email. Most popular ISPs can be set up in two steps. In the *Application menu* tap **Email** to start setting up your email account.


Account setup
You can set up your account in just a few steps.
Email address
Password
q w e r t v u i o p
a s d f g h j k l
z x c v b n m
?123 @
Next

If necessary, enter your email address and tap **Manual setup** to enter the parameters manually. Tap **Next** to finish the setup process.

Google services

Note
Apps may not be available in all countries and regions.

You must activate a Google account before using Google services. The first time you access Google services, you must read and accept the Terms of Service.

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Setting up your Google email

1. Make sure your smartphone is connected to a data or Wi-Fi connection.
2. From the *Application menu* tap **Gmail**.

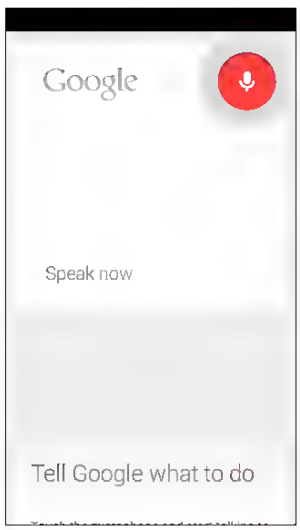
If you did not enter your Gmail account address and password when you first started your smartphone, follow the onscreen instructions.

Composing an email

1. Make sure your smartphone is connected to a data or Wi-Fi connection.
2. From the *Application menu* tap **Gmail**.
3. Tap .
4. Enter the recipient's email address, the subject and message.
5. When you are finished composing your message, tap .

Voice search

With voice actions, you can send text messages, place calls, send emails, find directions of establishments, automatically call establishments, search the internet and even send a note to yourself using your voice. Tap **Voice Search** from the *Application menu*, or tap the *microphone* icon on the *Home screen*.



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Play Store

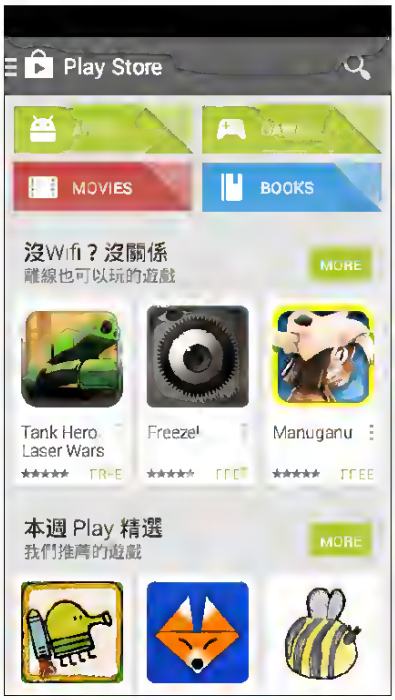
Important

For connection issues with Play Store, see FAQ and troubleshooting on page 66

Tap **Play Store** from the *Application menu* to open Google Play. Here you can obtain a variety of add-on programs and apps to enhance the functionality of your smartphone.

The contents and design of Google Play varies by region. For example, in some regions, you can also browse for and purchase movies, books, magazines, or music. Updates may add new categories or change how to navigate Google Play at any time.

You can browse the store by category or tap the search icon to search for a specific app.



Once you have selected an app, tap the **Install** button to download and install the app. You will be told which services the app requires access in order to function correctly (e.g. contact information, wireless access, GPS). If none of these services seem unusual, tap **Accept & download** to proceed with the installation.

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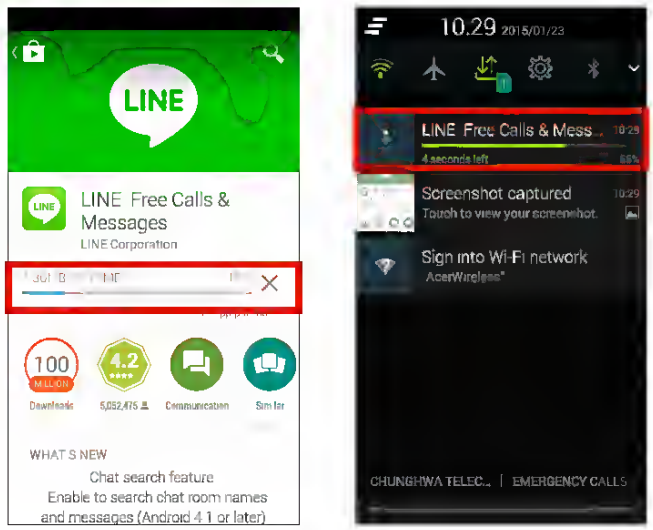
You may keep track of the download progress from both the app's page and the notification area.



Important

Some apps may require payment before you can download them. You will need to have a Google Wallet account in order to pay for these apps, or a credit card number associated with your Google account.

Using downloaded apps

Once you've downloaded and installed an app, you may find it in the Apps or Widgets sections of the *Application menu*.

Certain apps provide both an App and widget, or only provide a widget (with no app icon). **See Personalizing the Home screen on page 16**.

Uninstalling downloaded apps

Once you've downloaded and installed an app, you may uninstall the app by opening the *Application menu* and tapping **Settings** > **Apps**. In the downloaded tab, select the app you wish to uninstall and tap **Uninstall**. Deleting an app icon from the *Home screen* only deletes the shortcut.

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Google Hangouts

Tap **Hangouts** from the *Application menu* to open Google Hangouts. Here you can see a list of your contacts connected to Google Hangouts services. Tap on a contact to open a chat session. After you have connected, you can open a video chat session.

Maps, Navigation, Places and Latitude

Get easy-to-follow directions using Google Maps, view real-time traffic condition and navigate by using spoken, turn-by-turn driving instructions. Also, view where your friends are, places of interest, and local businesses.

Note

Maps does not have information about every location. Some locations may not have all zoom levels.

Using the map

Tap the **Maps** icon in the *Application menu*. Drag the map with your finger to move the map around.

To zoom in or out:

1. Double tap a location on the map to zoom in on the location, and tap once to zoom out, or
2. Touch an area with two fingers at once and spread them apart to zoom in, and pinch them together to zoom out.

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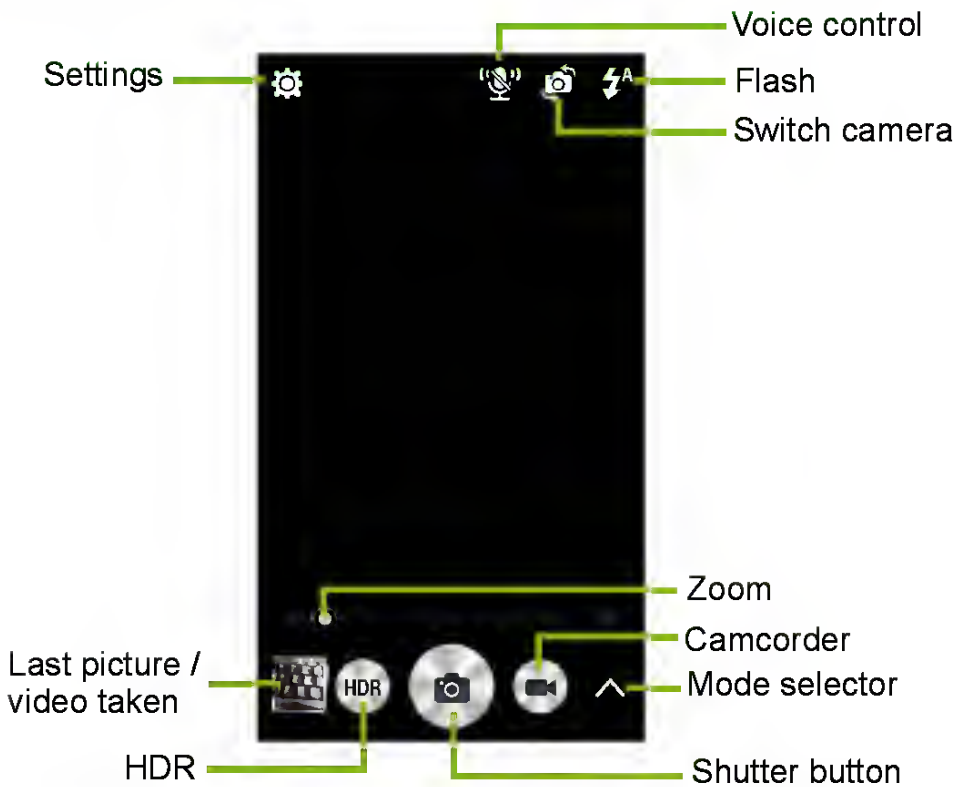
USING THE CAMERA

Your smartphone features a digital camera mounted on the front and rear. This section will take you through all the steps in taking photos and videos with your smartphone.

To activate the camera, open the *Application menu* and tap **Camera**.

Camera/camcorder icons and indicators



The camera window provides multiple controls on the image screen. Tap the **Shutter** button or press the **volume** key to take a picture. Tap the thumbnail image to open the gallery.

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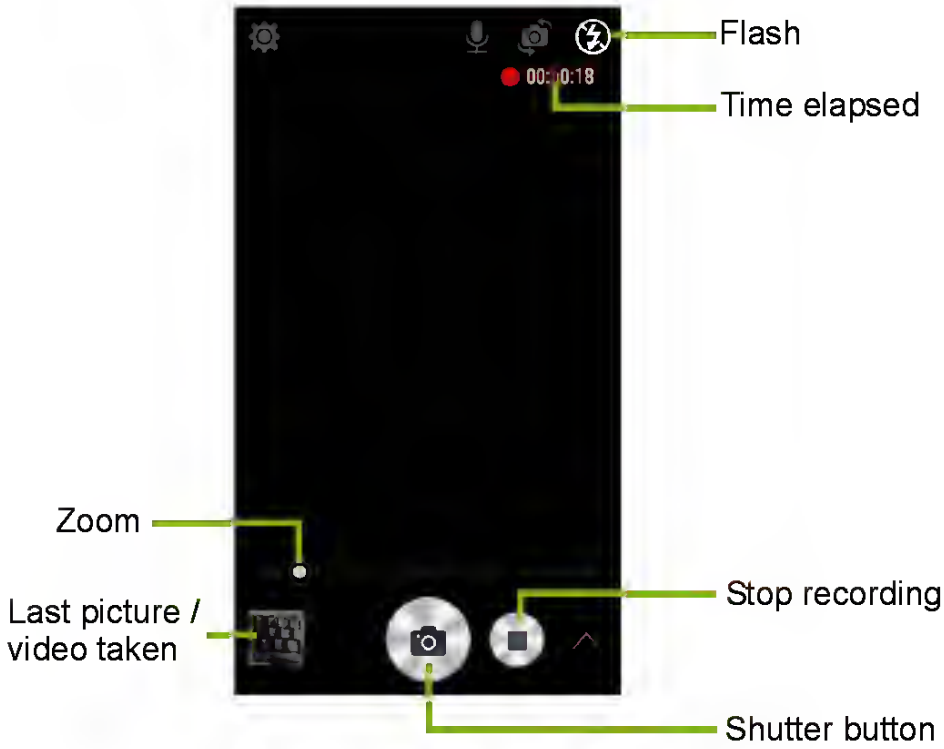
Tap the **Camcorder** button and the camcorder immediately begins filming. While filming, you are unable to access camera/camcorder settings; however, you can still take pictures with the *Shutter* button.



Tap the **Stop recording** button to stop filming.

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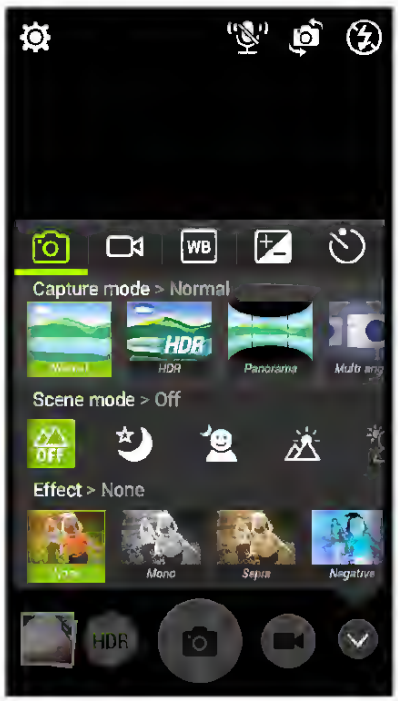
Mode Selector

Tap the *Mode selector* icon to open the list of modes you can choose from. Tap the icons along the top to select different items.



Camera

Capture mode: Select a capture mode.

Normal	HDR
Panorama	Multi angle view
Beautification	Best shot
Bright magic	Smile shutter
Picture with sound	

Scene mode: Adjust photo parameters for a particular environment.

Off	Night
Night portrait	Backlight
Backlight portrait	

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Color effect: Applies a color effect to the image.

None	Mono
Sepia	Negative
Aqua	

Camcorder

The camcorder's scene mode changes depending on the record mode setting (see table below).

	Record mode (normal)	**Record mode (Time lapse)**
Scene mode	Night	Timer

White balance

Compensate for different lighting environments.

Auto	Daylight
Cloudy	Fluorescent
Incandescent	

Image properties

Adjust the *Brightness*, *Contrast, Saturation, and Sharpness*.

Self-timer

Set the delay before the shutter is activated.

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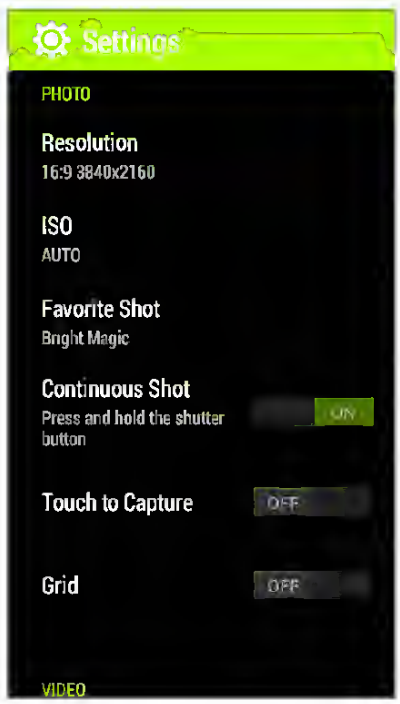
Settings menus

Note
Some of the following settings are not available for the front camera.

Tap the *Settings* icon to open the *Settings* menu.



Photo

You may adjust the following:

- Set the **Resolution value** and **aspect ratio**.
- Set the **ISO** value.
- Set the **Favorite shot**: Assign a mode to the "favorite shot" button.
- Turn **Continuous shutter** on or off: Tap and hold the shutter button for continuous images.
- Turn **Touch to Capture** on or off: Touch anywhere on screen to take a picture.
- Turn the on-screen **Grid** on or off.

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Video

You may adjust the following:

- Turn **Video stabilizer** on or off.
- Set the video **Resolution**.
- Set the **Audio** mode to *Mute mode* or *Normal mode*.

Other

You may adjust the following:

- Turn GPS **Location** info on or off: Stores GPS information in the image information.
- Set the **Storage** location for the images.
- Choose to **Reset to default** camera settings.

Taking a photo

1. Ensure you have adjusted the settings described above.
2. Frame your subject and steady your smartphone.
3. Zoom in or out as needed.
4. Tap the **Shutter** button to take a picture.

Shooting a video

1. Frame your subject and steady your smartphone and zoom in or out as needed.
2. Tap the **Camcorder** button to start taking a video. Tap the **Pause** or **Stop recording** buttons.

Supported formats

Note

To see supported image, video, and audio formats, **see Multimedia on page 74**.

Viewing photos and videos

After you have taken your photo or video, it is automatically saved. Once you have taken a photo or video, you can view it in *Gallery* by

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tapping the thumbnail in the corner of the image screen. Alternatively, open the *Application menu* and tap **Gallery**. From Gallery you can share the file directly using various services. Services vary depending on the file type.

Geotagging

Geotagging allows you to store the location where a photo or video was taken right in the photo or video itself.

For the geotag to display, pictures must be taken with GPS **Location** info turned on.

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ADVANCED SETTINGS

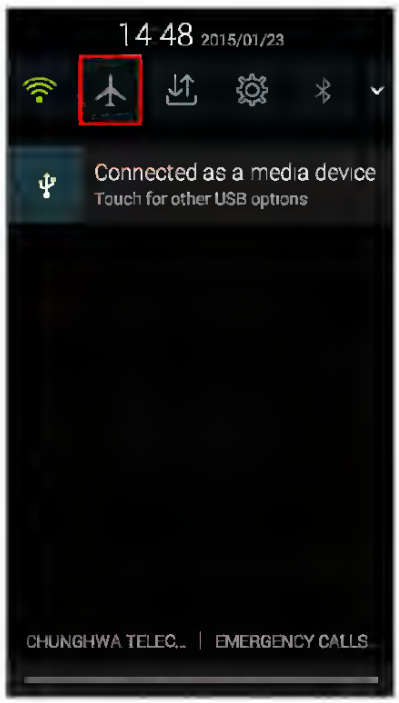
Putting your smartphone in Airplane mode

You can enable Airplane mode (also known as flight mode) to turn off cellular, Wi-Fi and Bluetooth functions and use your smartphone as a handheld device during a flight. Check with your airline to make sure this is permitted onboard.

Switch your smartphone off during takeoff and landing as it may interfere with aircraft electronic systems.

Turning Airplane mode on or off

1. Open the **Notification** area.
2. Tap .



-OR-

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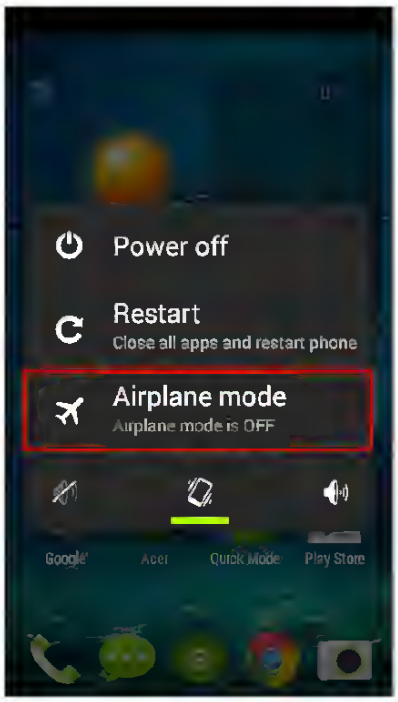
1. Press and hold the power button until you get the smartphone options menu.
2. Tap **Airplane mode** to switch it *ON* or *OFF*.

Note

When Airplane mode is active, the ✈ icon will be displayed in the Notification area.



Restarting your smartphone

You can restart (reboot) your smartphone if you find apps are not responding.

1. Press and hold the power button until you get the smartphone options menu.
2. Tap **Restart**.

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Adjusting settings

Activating or deactivating connections

Open the *Application menu* and tap **Settings** to manage your connection settings.

Item	Description
SIM management	Set a default SIM for particular functions (such as voice calling or messaging), turn the data connection on or off, set roaming preferences and associate contacts with a SIM.
Wi-Fi	Turn the Wi-Fi function on or off.
Bluetooth	Turn the Bluetooth function on or off.
Data usage	View an estimate of the mobile data used for each SIM.
More...	Access additional connection settings: **Airplane mode**: Disable all wireless connections so you can safely use this device onboard an aircraft. **Default SMS app**: Choose which app serves as the default SMS app. **Tethering & portable hotspot**: Share your smartphone's mobile data connection via USB or as a portable Wi-Fi hotspot. **VPN**: Set up and manage Virtual Private Networks. **Mobile networks**: Set your options for connecting to mobile networks. **USB Internet**: Share your computer's internet connection via a USB cable. **See Internet sharing on page 52**.

If your smartphone is in Airplane mode, the option to turn Bluetooth on will be disabled. Please refer to **Putting your smartphone in Airplane mode on page 49** for instructions on turning Airplane mode on or off.

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Adjusting Bluetooth settings

You can use Bluetooth to exchange information between your smartphone and other mobile devices.

Bluetooth connections

For all Bluetooth settings, open the *Application menu* and tap **Settings > Bluetooth**. Here you can switch Bluetooth on or off, set a device name and discoverability. Tap **SEARCH FOR DEVICES** to scan for available devices.

To connect to a device, tap the device in the list of available devices. You may be asked to enter a PIN on both devices to establish the connection.

To simply turn on or off Bluetooth, open the **Notification** area and tap the **Bluetooth** button.

Internet sharing

Tethering via USB

If you wish to share your mobile internet connection with a computer, you can connect your smartphone to a PC using the supplied USB cable.

1. Plug the USB sync cable into the micro USB connector on your smartphone.
2. Plug the USB client connector into an available USB port on your computer.
3. Push the **Menu** button and then tap **Settings** > **More..** > **USB Internet**.

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Wi-Fi hotspot

You can turn your smartphone into a portable Wi-Fi hotspot to share your mobile internet connection with up to 8 clients.

1. Push the **Menu** button and then tap **Settings** > **More...** > **Tethering & portable hotspot**. Turn *Wi-Fi hotspot* **ON**.Tap **Wi-Fi hotspot** > **Set up Wi-Fi hotspot**.
2. Set the Network SSID and adjust security between None and WPA2 PSK. Tap **Save** to finish.

Note

When your smartphone is serving as a Wi-Fi hotspot, you can't use your smartphone's apps to access the internet via its Wi-Fi connection.

Mobile network settings

In the *Application menu* tap **Settings** > **More...** > **Mobile networks** to adjust your network settings.

Selecting a network

Your smartphone will automatically detect your carrier/network settings when you insert a new SIM card. However, you may prefer to manually select a network. This may be a good idea when roaming.

Note

When you are traveling, manually selecting a network may help to reduce your roaming charges. Check with your home service provider for the network offering the most competitive rates at your destination.

1. Open the *Application menu* and tap **Settings** > **More...** > **Mobile networks** > **Network operators** > [Tap to choose the carrier] > **Select Manually**.
2. Your smartphone will search for available networks.
3. Select your preferred network from the list generated. Your smartphone will attempt to register on the selected network.

-OR-

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Tap **Select automatically** to connect to the available network with the strongest signal. This may lead to your smartphone jumping between networks when you move around.

Note

Contact your service provider should you have any problems obtaining voice mail and the text message service center numbers.

Data usage control settings

Data usage controls let you monitor total usage by network type and app and then set limits if needed.

Ensure Wi-Fi or mobile data is enabled before setting a limit. Access data usage settings from the *Application menu* by tapping **Settings** > **Data usage**.

Smartphone settings

Many smartphone settings are automatically configured by your smartphone when you insert a SIM card. The device will communicate with your provider and automatically obtain all necessary settings, such as network name, voice mail and text message center numbers.

You can also view and modify these settings manually through the Call settings screen.

From the *Home screen*, tap **Phone**, then tap the **Menu** button > **Settings** > **Voice Call**. Tap which settings you want to modify.

Sound

To adjust your smartphone's sound settings, in the *Application menu* tap **Settings** > **Sound**.

Item	Description
Vibrate	Vibrates the device for incoming calls.
Volumes	Adjust the *Music, video, games & other media*; *Ringtone*; *Notifications*; and *Alarm* volumes.
Phone ringtone	Sets your default voice calls ringtone.
SIP call ringtone	Sets your default SIP calls ringtone.

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Item	Description
Default notification sound	Set your smartphone's default notification sound.
Dial pad touch tones	Play tones when using dial pad.
Touch sounds	Play sounds when touching certain UI elements.
Screen lock sound	Play sound when locking and unlocking the screen.
Vibrate on touch	Vibrate when pressing soft keys and on certain UI interactions.

Adjusting the volume

Adjust the volume of your smartphone using the volume button on the side of the smartphone. Alternatively, you can set the *Music, video, games & other media; Ringtone*; *Notifications*; and *Alarms* volume by opening the *Application menu* and tapping **Settings** > **Sound** > **Volumes**.

Audio profiles

To adjust your smartphone's sound settings, in the *Application menu* tap **Settings** > **Audio profiles**. Choose from *General*, *Silent*, *Meeting*, or *Outdoor*.

Display

To adjust your smartphone's display settings, in the *Application menu* tap **Settings** > **Display**.

Item	Description
Lock screen notifications	Enable displaying notifications on lock screen.
Theme	Choose from *Default* or *Acer*.
Wallpaper	Change the *Home screen*'s wallpaper.
Brightness	Adjust screen brightness.
Auto-rotate screen	Enable rotation of the screen when device is tilted.

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Item	Description
Sleep	Adjust the delay before the screen automatically turns off.
Daydream	Controls what happens when the smartphone is docked and/or sleeping.
Font size	Change the default font size for the UI.
Wireless Display	Mirrors your device's display on a compatible monitor or display. *Pairing your device to the display is required before use and may require a dongle. See the instructions that came with your display or dongle to pair.*

Setting the date and time

To set the date and time, open the *Application menu* and tap **Settings** > **Date & time**.

If you travel frequently or live in an area that uses daylight saving time, activate **Automatic date & time** > **Use network-provided time** from this menu. This will enable your smartphone to set the date and time based on information it receives from the network.

Setting alarms

There are two predefined alarms on your smartphone by default. Tap **Clock** in the *Application menu*, and then tap to edit alarm settings. You may:

- Turn the alarm on or off.
- Set the alarm time.
- Set which days to repeat the alarm.
- Set a ringtone.
- Enable or disable vibrate.
- Give it a label.

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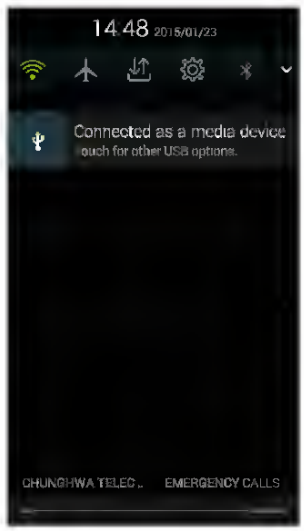
Changing language and text options

Set your location and language input preferences by opening the *Application menu* and going to **Settings** > **Language & input**.

Connecting to a PC

If you wish to transfer information between your device and your computer (either the microSD card in your device or the device's internal memory), you can connect your device to a PC using the supplied USB cable.



1. Plug the USB sync cable into the micro USB connector on your smartphone.
2. Plug the USB client connector into an available USB port on your computer.
3. Open the notification area and ensure your USB connection method says **Connected as a media device**. Your device will now be available as a drive in your computer's file explorer. Tap **Connected as a media device** to choose other connection methods.

Note

After turning on USB storage, you will not be able to access the files in the microSD card or apps such as Gallery or Music.

Synchronization

You can sync your calendar, email and contacts on your smartphone and never worry about losing them again. Sync in real time or adjust it as you please. In the *Application menu*, tap **Settings.** Under ACCOUNTS, tap the appropriate account and again under

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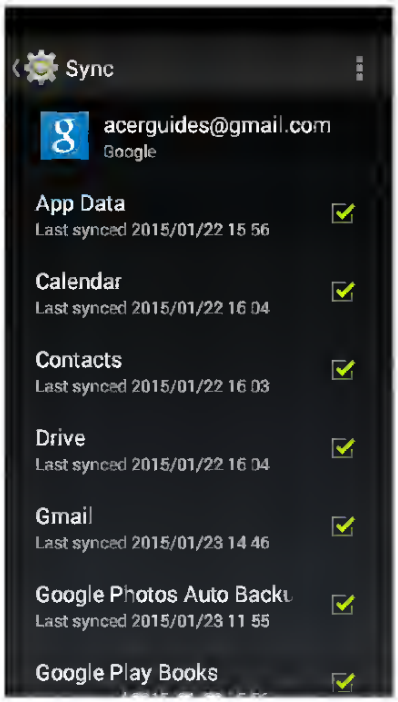
ACCOUNTS tap that account's email address to access the synchronization settings.



To add a new account, tap **Add account**. Select the type of account and then follow the onscreen instructions.

Google Sync

In Google, you can set synchronization for Google services. In your Google account's synchornization settings menu, tap the checkmark next to the item you would like to have auto-sync. Tap again to uncheck any for manual synchronization.

To manually synchronize an item, make sure the item is checked, tap the **Menu** button and then tap **Sync now**.

Note

You need a Google account to sync your calendar and appointments.

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FM radio

The FM radio allows you to listen to your favorite stations while on the move. Headphones must be inserted to the 3.5 mm jack as the cable functions as an antenna.

You can access the radio by tapping **FM Radio** from the *Application menu*.

Tap the back icon to turn the radio off.

Applications (apps)

Closing an app

To close an active app, in the *Application menu* tap **Settings** > **Apps**. Swipe over to the **Running** tab, then tap the program you wish to close. Select **Stop** to close the program.

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Uninstalling an app

You can remove programs installed on your smartphone to free up extra storage memory.

1. In the *Application menu* tap **Settings** > **Apps**.
2. Swipe over to the **Downloaded** tab.
3. Find the app in the list and tap on it.
4. Tap the **Uninstall** button and then tap **OK**.

Important
You should only remove programs if you are familiar with the Android operating system.

Restoring to factory settings

You may perform a clean boot to restore your smartphone to the factory settings. Before performing a clean boot, ensure that your smartphone is not locked. Press any key or tap the screen to see if the smartphone responds.

Important
You should only perform a clean boot when all other options have failed to restore your smartphone to an operational state.
This will erase all your personal information, any contacts stored on your smartphone and any programs you installed.

If your smartphone is responding to screen input, then open **Settings** from the *Application menu*. Tap **Backup & reset** > **Factory data reset** > **Reset smartphone** and then **Erase everything** to format your smartphone.

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ACCESSORIES AND TIPS

This chapter shows you how to use accessories with your smartphone, as well as provide useful tips for when you are using your smartphone.

Using the headset

Your smartphone is compatible with headsets with built-in microphone for handsfree use when making calls.

To use the headset, plug it into the 3.5 mm headphone jack at the top of the smartphone.

When the headset is plugged in, all audio is routed to the headset, and the speakers are turned off.

- To answer an incoming call, press the button on the microphone.
- Adjust the volume using the volume up/down button on the smartphone.
- End the call by pressing the button again.

Using a Bluetooth headset

Your smartphone's Bluetooth functions make it fully compatible with all Bluetooth headsets. This allows you to use the unit handsfree when making calls, without the inconvenience of wires.

Creating a new access point

When you need to add another GPRS/3G/4G/EDGE connection on your smartphone, obtain the access point name and settings (including username and password if required) from your wireless service provider.

1. Open the *Application menu* and tap **Settings** > **More...** > **Mobile networks** > **Access Point Names**, and select an operator.
2. Tap the **Menu** button and then tap **New APN**.
3. Enter the APN settings. Tap an item to adjust it.

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4. When you have finished tap the **Menu** button and then tap **Save**.

Important

Some providers and countries do not allow the use of a smartphone as a modem over HSDPA. Please check with your provider before attempting to do so.

Inserting a microSD card

Your smartphone features a memory expansion slot that accepts a microSD card to expand memory and storage capacity.

Please refer to **Installing a SIM or microSD card on page 7** for instructions on installing a microSD card.

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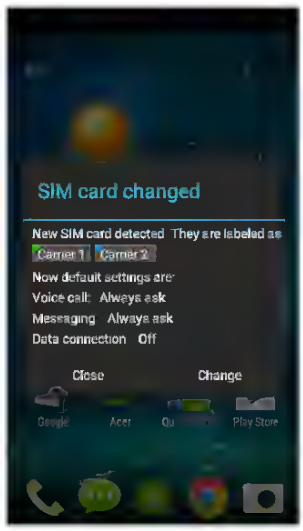
MANAGING YOUR SIM CARDS

Note
This chapter is for models with more than one SIM card.

If your smartphone detects a new SIM card, you will be asked to confirm the preferred SIM to use for each action.



It indicates the following information:

1. The color used for each SIM card and its network name.

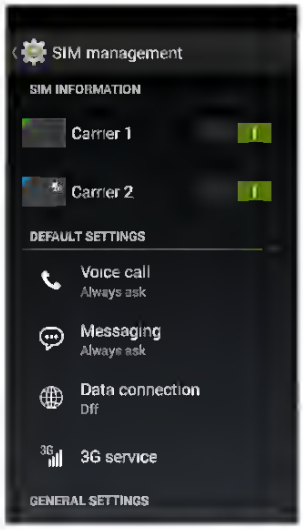
- The preferred SIM for outgoing calls.
- The preferred SIM for sending messages.
- The preferred SIM for mobile data.

Tap **Change** to edit these settings from the *SIM Management* screen. You can also access the *SIM Management* functions by opening the *Application menu* and tapping **Settings** > **SIM management**.

SIM Management

Open the *Application menu* and tap **Settings** > **SIM management**. From this screen, you can:

1. Enable or disable each SIM.
2. Tap the SIM name to configure each SIM's name, phone number, display numbers, and assign a color to each SIM (allowing you to quickly and easily recognize which SIM is active).
3. Set the default SIM for *voice calls*, *messaging*, *data connection*, and *4G/3G service*.
4. General settings for each SIM.



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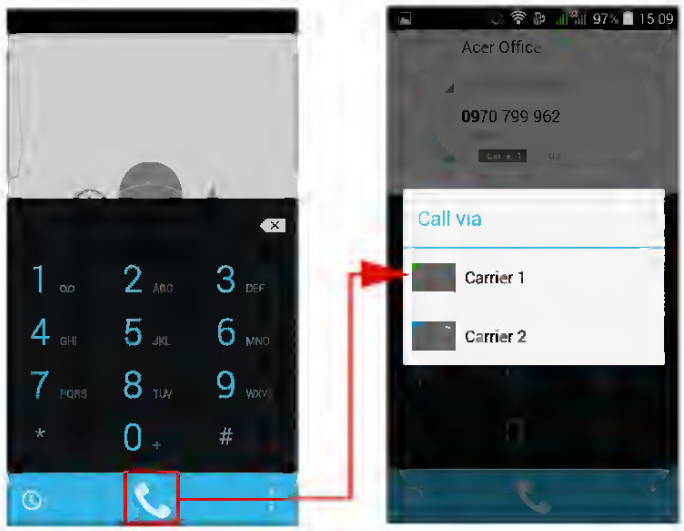
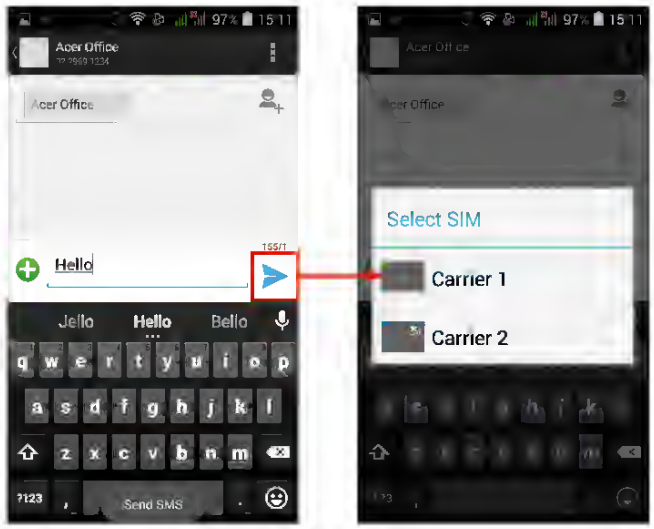
Selecting which SIM to use when making a call

If you have set *Voice call* to **Always ask**, you will be asked which SIM to use each time you make call. Enter the number, then tap . A dialog opens; tap the SIM to use and the call will be connected.



Selecting which SIM to use when sending a text message

If you have set *Messaging* to **Always ask**, you will be asked which SIM to use each time you send a text message. Enter the message and recipient information, then tap **Send**. A dialog opens; tap the SIM to use and the message will be sent.



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Identifying calls

Whenever you receive a call, the caller's number will be shown using the color defined for the SIM that the call is being received on. You will also be shown the name of the SIM receiving the call.

In the call log, the name of the SIM will be shown beneath the number of the call -- whether the call was missed, answered or was an outgoing call -- in the color you defined for that SIM.

Limitations when using multiple SIMs

When a SIM is:	Other SIMs cannot:
In a call	Dial out
Ringing	Receive a call (caller will get a "number not available" message)
Sending or receiving a message	Send or receive a message
Using a data connection	Use a data connection

Note

If you are using data on one SIM and you make or receive a call, or send or receive a text message on another SIM, the first SIM's data connection will be temporarily halted.

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APPENDIX

FAQ and troubleshooting

This section lists frequently asked questions that may arise during the use of your smartphone, and gives easy answers and solutions to these questions.

Aspect	Question	Suggestions
Audio	Why is there no sound coming from the device?	If the headset is plugged into the device, the speaker is automatically shut off. Disconnect the headset. Check that the device volume setting is not muted. Check that the volume control is not at its lowest setting.
Multimedia files	Why can't I view my picture files?	You may be trying to view an image that is not supported. **See Multimedia on page 74**.
	Why can't I view my video files?	You may be trying to view a video that is not supported. **See Multimedia on page 74**.
	Why can't I play my music files?	You may be trying to play a file that is not supported. **See Multimedia on page 74**.

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Aspect	Question	Suggestions
Google Play Store	Why can't I connect to the Play Store?	1. First check that you have a Wi-Fi or data connection and then try again. *Some Wi-Fi "hotspots" require you to log in before accessing the internet.* 2. If you still cannot connect, try adjusting your date/time settings. Open the *Application menu* and tap **Settings** > **Date & time** > **Automatic date & time** set to *off*. 3. Manually adjust the time and date then try to reconnect to the Play Store (change the time/date back after connecting).
System information and performance	How do I check the OS version of my device?	Tap **Settings** > **About phone** to check the OS version (Build number) and other hardware and software information.
Power	I can't turn on the device.	The battery power may be depleted. Recharge the device. **See Charging the battery on page 6** for more information.
RAM / ROM	How do I check the RAM and ROM memory status?	To check the ROM status, tap **Settings** > **Storage.** To check RAM status, tap **Settings** > **Apps** > **RUNNING.**
Internal storage	My device's available internal storage is full or almost full.	Uninstall apps to increase available storage. **See Uninstalling an app on page 60**.

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Aspect	Question	Suggestions
Unlock pattern	I forgot my unlock pattern.	After a certain number of wrong entries, you will be presented with an option to reset your pattern. Tap **Forgot pattern?** and enter your Google account username and password. *You must have an active Google account on the smartphone. Alternatively, you restore your smartphone to factory settings.* **See Restoring to factory settings on page 60.**
Heat	The smartphone heats up when charging or making long duration calls.	It is normal for the smartphone to heat up when charging. When charging is complete, it will return to its normal temperature. It is also normal for the smartphone to heat up during long periods of use, such as watching a video or a long smartphone conversation.

Other sources of help

For information on	Refer to ...
Up-to-date information regarding your smartphone	**www.acer.com** **mobile.acer.com**
Service enquiries	**www.acer.com/support**

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WARNINGS AND PRECAUTIONS

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use this product when engaging in sporting activities, exercising, or in any vibrating environment which may cause a short circuit or damage, and even a risk of explosion from the battery pack.

Protecting your hearing

To protect your hearing, follow these instructions.

- Increase the volume gradually until you can hear clearly and comfortably.
- Do not increase the volume level after your ears have adjusted.
- Do not listen to music at high volumes for extended periods.
- Do not increase the volume to block out noisy surroundings.
- Decrease the volume if you can't hear people speaking near you.

Additional safety information

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

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Operating environment

Important

For safety reasons, turn off all wireless or radio transmitting devices when using your smartphone device under the following conditions. These devices may include, but are not limited to: wireless LAN (WLAN), Bluetooth and/or cellular devices.

Remember to follow any special regulations in force in any area, and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions. To successfully transmit data files or messages, this device requires a good quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure that the above separation distance instructions are followed until the transmission is completed. Parts of the device are magnetic. Metallic materials may be attracted to the device, and persons with hearing aids should not hold the device to the ear with the hearing aid. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Medical devices

Operation of any radio transmitting equipment, including wireless smartphones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF transmissions.

Pacemakers. Pacemaker manufacturers recommend that a minimum separation of 15.3 cm (6") be maintained between wireless devices and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should do the following:

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- Always keep the device more than 15.3 cm (6") from the pacemaker.
- Not carry the device near your pacemaker when the device is switched on. If you suspect interference, switch off your device, and move it.

Hearing aids. Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic anti-skid (anti-lock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added. Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed, and the air bag inflates, serious injury could result. Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refueling points such as near gas pumps at service stations.

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Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmospheres are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

Follow any restrictions. Do not use the device where blasting is in progress.

Emergency calls

Important

Wireless smartphones, including this device, operate using radio signals, wireless networks, landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this guide or your service provider for more information.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

Taking care of your smartphone

1. **DO** take care not to scratch the screen of your smartphone. Keep the screen clean. When working with your smartphone, use your finger or fingernail. Never use an actual pen or pencil or other sharp object on the screen surface.
2. **DO NOT** expose your smartphone to rain or moisture. Do not let water enter the circuitry through the front panel buttons or expansion slots. In general, treat your smartphone as you would a mobile

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smartphone or other small electronic device.

3. **DO** be careful not to drop your smartphone or subject it to any strong impact. Do not place your smartphone in your back pocket.
4. **DO NOT** expose your smartphone to extreme temperatures. For example, do not leave your smartphone on the dashboard of a car on a hot day or when temperatures are below freezing point. Also, keep it away from heaters and other sources of heat.
5. **DO NOT** use or store your smartphone in any location that is dusty, damp or wet.
6. **DO** use a soft, damp cloth to clean your smartphone. If the surface of the screen becomes soiled, clean it with a soft cloth moistened with diluted window-cleaning solution.
7. **DO NOT** press down on the screen with force, otherwise you may crack the screen.

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Specifications

Note
Specifications may vary depending on region and configuration.

Performance

- 1.3 GHz quad-core processor
- System memory:
  - 1 GB / 2 GB RAM (depending on model)
  - 8 GB / 16 GB (depending on model)
- Android operating system

Display

- 5" TFT LCD, capacitive touchscreen
- 480 x 854 resolution

Multimedia

Formats supported:

Type	Formats
Image	JPEG, GIF, PNG, BMP
Audio playback	MP3, AMR, AAC LC, AAC+, eAAC+, Vorbis, FLAC, MIDI, WMA, WAVE
Ringtone	MP3, AMR, AAC LC, AAC+, eAAC+, Vorbis, FLAC, MIDI, WMA, WAVE
Video recording	H.263, H.264, MPEG4
Video playback	H.263, H.264, MPEG4, VP8, WMV

USB connector

- Micro USB connector
- USB client
- DC power-in (5 V, 1 A)

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Connectivity

- Bluetooth 4.0
- IEEE 802.11b/g/n
- GSM 850 / 900 / 1800 / 1900 MHz
- HSPA/WCDMA: EU 900 / 2100 MHz (or US 850 / 900 / 1900 / 2100 MHz)
- HSPA+ / GPRS / EDGE
- GPS

Camera

- 2 MP front camera
  - Fixed focus
- 8 MP rear camera
  - Automatic focus

Expansion

- microSD memory card slot (up to 32 GB)

Battery

- 2000 mAh rechargable/replaceable Li-polymer battery

Note

Length of battery operation will depend on power consumption which is based on system resource use. For example, constantly using the backlight or using power-demanding apps will shorten battery life between charges.

Dimensions

Height	143 mm
Width	73 mm
Thickness	9.9 mm
Weight	150 g (with battery)

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